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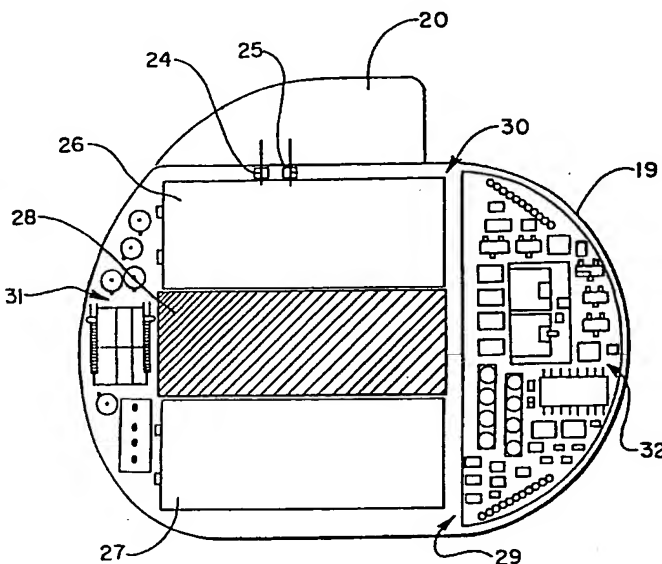
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(54) Title: PROPHYLACTIC IMPLANTABLE CARDIOVERTER-DEFIBRILLATOR

(57) Abstract

A practical and effective prophylactic implantable cardioverter defibrillator (ICD) that has the potential to benefit a large number of patients with less severe cardiac conditions who now lack the opportunity to be served in a practical way by existing ICD systems. Unlike existing ICD systems, the prophylactic ICD (17) is designed to deliver between about 100 to 200 shocks, with each shock having a maximum delivered energy value of only about 25 joules. As a result, the initial stored energy requirements of the prophylactic ICD system (17) are less than about 12,000 joules, and both the battery (28) and the capacitor systems (26, 27) can be significantly smaller than existing ICD system. The smaller battery (28) and capacitor systems (26, 27) produce in an implantable device having a physical size small enough to permit implantation of the device in the pectoral region. By using the particular ranges of number of shocks and maximum energy value for each shock to design the ICD system, the result is a practical prophylactic ICD system (17) that will provide effective prophylactic therapy for prospective cardiac incidents in patients with less severe cardiac conditions.



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US94/10665

| A. CLASSIFICATION OF SUBJECT MATTER IPC(6) : A61N 1/39 US CL : 607/005, 036 According to International Patent Classification (IPC) or to both national classification and IPC | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|-----|---|---|-----|--|--|-----|--|---|-----|---|--|--|--|--|--|--|
| B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 607/005, 007, 036 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched NONE Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) NONE | | | | | | | | | | | | | | | | | | | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | | | | | | | | | | | | | | | | | | | |
| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. | | | | | | | | | | | | | | | | | | |
| A | US, A, 5,241,960, (ANDERSON ET AL), 07 September 1993. See Abstract. | 1-13 | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex. | | | | | | | | | | | | | | | | | | | | |
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| Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230 | | Authorized officer <i>Marianne Parker</i> MARIANNE PARKER Telephone No. (703) 308-0858 | | | | | | | | | | | | | | | | | | |